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**Cognitive decline and sarcopenia: An in-depth bibliometric analysis of their associations and viable intervention targets**

**Abstract:**

Cognitive decline and sarcopenia are age-related conditions that are closely related because of their close interaction and etiological factors. The presence of sarcopenia can influence changes in cognitive status. Given their potentially adverse outcomes, it is crucial to investigate their associations to develop effective intervention and management strategies for geriatric patients. In this study, we screened the Web of Science core collection database for literature on sarcopenia and cognitive decline over the past 30 years. Bibliometric analysis was conducted to ascertain the link between them. On the basis of the inclusion and exclusion criteria, 1426 literature sources were selected for further analysis. Keywords such as "age" and "predictor" represent current and potential future research trends in this field. Additionally, potential targets involved in pathways related to cellular aging and muscular metabolism regulation, including the AMPK, PI3K-Akt, and longevity-regulating pathways, were identified between the two diseases. This study established a close correlation between cognitive decline and sarcopenia in terms of pathogenesis, prevention, and treatment measures, laying the groundwork for exploring shared strategies to address these disorders.

**Keywords:** Cognitive decline, Sarcopenia, Association, Bibliometric analysis.

**Biography**

**Xiaolei Liu** is a distinguished medical professional based in Chengdu, China. Affiliated with West China Hospital, Sichuan University, Dr. Liu contributes significantly to clinical practice and research in their field. With a commitment to advancing healthcare and medical science, Dr. Liu actively engages in academic and professional collaborations.